

Ivera Medical, Inc.
Don Canal
Vice President of Operations and Regulatory Affairs and Quality Assurance
3525 Del Mar Heights Road, Suite #430
San Diego, California 92130

March 11, 2022

Re: K121171

Trade/Device Name: Curos Tip

Regulation Number: 21 CFR 880.5440

Regulation Name: Intravascular Administration Set

Regulatory Class: Class II

Product Code: QBP

Dear Don Canal:

The Food and Drug Administration (FDA) is sending this letter to notify you of an administrative change related to your previous substantial equivalence (SE) determination letter dated November 26, 2012 and the correction letter dated December 14, 2018. Specifically, FDA is updating this SE Letter because FDA has better categorized your device technology under regulation 880.5440.

Please note that the 510(k) submission was not re-reviewed. For questions regarding this letter please contact Payal Patel, OHT3: Office of GastroRenal, Ob-Gyn, General Hospital and Urology Devices, 240-402-6029, Payal.Patel@fda.hhs.gov.

Sincerely,

Payal Patel

Assistant Director for General Hospital Devices

DHT3C: Division of Drug Delivery and General Hospital

Devices and Human Factors

OHT3: Office of GastroRenal, Ob-Gyn, General Hospital

and Urology Devices

Office of Product Evaluation and Quality Center for Devices and Radiological Health



December 14, 2018

Ivera Medical, Inc.
Don Canal
2731 Loker Avenue West
Carlsbad, California 92010

Re: K121171

Trade/Device Name: Curos Tip Regulatory Class: Unclassified

Product Code: QBP Dated: April 17, 2012 Received: April 17, 2012

Dear Don Canal:

This letter corrects our substantially equivalent letter of November 26, 2012.

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal

statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see https://www.fda.gov/CombinationProducts/GuidanceRegulatoryInformation/ucm597488.htm); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (https://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/) and CDRH Learn (http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/) and CDRH Learn (http://www.fda.gov/Training/CDRHLearn). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (http://www.fda.gov/DICE) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Tina Kiang, Ph.D. Acting Director

Division of Anesthesiology, General Hospital, Respiratory, Infection Control, and Dental Devices

Office of Device Evaluation Center for Devices and Radiological Health

4.	Indications	for Hea	Statement
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K121171

The Curos TipsTM are intended for use as a disinfecting cleaner for male luer connectors. Curos Tips will disinfect the male luer (3) minutes after application and will cover the luer until removed. The effectiveness of the Curos Tips was tested in vitro against Staphylococcus aureus, Staphylococcus epidermidis, Escherichia coli, Pseudomonas aeruginosa, Candida glabrata, and Candida albicans. The Curos Tips may be used in the home or healthcare facility.

Prescription Use	£7 A	ND/OR Over-Ti	he-Counter Us	ie
(Part 21 CFR 80)	Subpart D)		(21 CFR 807 9	Subpart C)
LEASE DO NOT 1	WRITE BELOW THIS LINE - CO	NTINUE ON AN	OTHER PAGE	F NEEDED)
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5. 510(k) Summary

General Company Information

Name:

Ivera Medical Corporation

NOV 2 6 2012

Contact:

Don Canal

Vice President of Operations and RAQA

Address:

Ivera Medical Corporation 3525 Del Mar Heights Road

Suite #430

San Diego, CA 92130

Telephone:

972-955-7644

Fax:

858-228-1770

Date Prepared: October 23, 2012

General Device Description

The Curos TipsTM are intended for use on IV administration lines Male luer as a disinfecting cleaner, which contains 70% IPA, prior to line connection and to act as a physical barrier to contamination between line accesses. The Curos Tips have a highly visible green color that may allow improved compliance by easy visual verification. The Curos Tips may be used in the home or healthcare facility.

Common Name:

Pad, Alcohol

Trade Name:

Curos Tips[™]

Classification:

Unclassified Device, product Code LKB

Predicate Devices

K111992 Curos Port Protector, Ivera Medical Corporation K093229 Catheter Connections Dual Cap

Intended Use (Indications)

The Curos TipsTM are intended for use as a disinfecting cleaner for male luer connectors. Curos Tips will disinfect the male luer (3) minutes after application and will cover the luer until removed. The effectiveness of the Curos Tips was tested in vitro against Staphylococcus aureus, Staphylococcus epidermidis, Escherichia coli, Pseudomonas aeruginosa, Candida glabrata, and Candida albicans. The Curos Tips may be used in the home or healthcare facility.

	Title:	
K121171	Ivera Medical Curos Tips 510(k) Notification	`

Comparison with Predicate Device

Subject Device to Predicate Technological Comparison Table

Characteristic	Subject Device K121171	Curos Port Protector	Predicate Device
Device name	K121171 Curos Tips	K111992	K093229
Common Name	Alcohol, disinfecting pad	Curos Port Protector Alcohol, disinfecting pad	Dual Cap Alcohol, disinfecting
		Alcohol, disinfecting pad	pad
Manufacturer	Ivera Medical	Ivera Medical	Catheter Connections
510(k) number	Subject Device	K111992	K093992
Regulation	Unclassified, Preamendment	Unclassified, Preamendment	Unclassified,
number,	device, product code: LKB	device, product code: LKB	Preamendment device,
product code Indications for	The Course Time IM	The Course is intended for	product code: LKB DualCap TM is intended
use	The Curos Tips [™] are intended for use as a	The Curos is intended for use on swab-able luer	for use on Luer access
use	disinfecting cleaner for male	access valves as a	valves and the IV
	luer connectors. Curos Tips will disinfect the male luer (3) minutes after application and will cover the luer until removed. The effectiveness of the Curos Tips was tested in vitro against Staphylococcus aureus, Staphylococcus epidermidis, Escherichia coli, Pseudomonas aeruginosa, Candida glabrata, and Candida albicans. The Curos Tips may be used in the home or healthcare facility.	disinfecting cleaner prior to line access and to act as a physical barrier to contamination between line accesses. Curos ™ will disinfect the valve three (3) minutes after application and act as a physical barrier to contamination for up to seven (7) days (168 hours) if not removed. The effectiveness of Curos Protectors were tested in vitro against Staphylococcus aureus, Staphylococcus epidermidis, Escherichia coli and Pseudomonas aeruginosa, Candida glabrata, Candida albicans and was found to have >4 log reduction. The Curos Port Protector may be used	administration line male Luer connections. DualCap TM will disinfect and decontaminate the valve and male Luer and act as a barrier to contamination between IV administration line accesses. DualCap TM will disinfect the connections within five (5) minutes after application and act as a physical barrier to contamination up to ninety-six (96) hours under normal conditions if not removed.
		in the home or healthcare facility.	
Disinfectant –			
active	70% Isopropyl Alcohol	70% Isopropyl Alcohol	70% Isopropyl Alcohol
ingredient			
Male Luer	Yes	No.	V
Connection	res	No	Yes
Female Luer			
Connection-	No .	Yes	Yes
Length	076 inches	0.40 inches	1.82 inches
Diameter	0.272 inches	0.54 inches	0.47 inches
User Population	Home and hospital use	Home and hospital use	Home and hospital use

	Title:	•	
K121171		Ivera Medical Curos Tips 510(k) Notification	
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Characteristic	Subject Device K121.171	Curos Port Protector K111992	Predicate Device K093229
Colorants Used	Translucent green, molded	Translucent green, molded	Blue, white Plastic,
(type, amount,	plastic, 3% concentration	plastic, 3% concentration	unknown material and
concentration)	plastic, 3% content actor	plastic, 5% content action	pigment(s)
Provided Sterile	Yes	Yes	Yes
Single Use	Yes ,	Yes	Yes
Device	165	163	163
Plastic Housing		,	
to remain in	Yes	Yes	Yes
place			:

Substantial Equivalence Performance Testing

Ivera Medical has provided non-clinical performance test data that demonstrates the predefined acceptance criteria for a disinfecting device has been met. This acceptance criteria is defined as a bacteria count reduction of ≥ 4 log reduction of 2 selected gram positive bacteria, 2 selected gram negative bacteria, and two selected fungus/yeast micro-organisms for a period of 3 minutes.

The efficacy testing was completed using a total of 6 bacteria. As recommended by the Draft Guidance for Industry and FDA Staff Premarket Notification [510(k)] Submissions for Medical Devices that Include Antimicrobial Agents DRAFT GUIDANCE Ivera completed the 2-gram negative and 2 gram positive bacteria. This guidance document is being distributed for comment purposes only. Document issued on: July 19, 2007. Ivera has also completed testing on 2 fungus/yeast micro-organisms Candida Albicans and Candida Glabrata. The test results are summarized in Table 1.

Table 1 - Efficacy Test Results

Organism	Acceptance Criteria (bacterial count reduction (ΔLog))	3 minute exposure (bacterial count reduction (△Log))
Staphylococcus aureus	≥4 Log	6.61
Staphylococcus epidermis	≥4 Log	6.48
Escherichia coli	≥4 Log	6.53
Pseudomonas aeruginosa	≥4 Log	6.49
Candida Albicans	≥4 Log	6.60
Candida Glabrata	≥4 Log	6.64

The Ivera Curos Tips are sterilized using a validated Gamma sterilization process which complies with ISO11137-1:2006/(R) Sterilization of health care products - Radiation - Part 2: Establishing the sterilization dose. Recognition number 14-225.

K121171 Ivera Medical Curos Tips 510(k) Notification		Title:	
	K121171	Ivera Medical Curos Tips 510(k) Notification	ν

ISO11137-2:2006 Sterilization of health care products – Radiation – Part 1: requirements for development of validation and routine control of sterilization process for medical devices. Recognition number 14-297.

11137-3:2006/(R) 2010 10/04/2010 AAMI ANSI ISO 14-298 - Radiation - Part 3: Guidance on Dosimetric Aspects. Recognition number 14-298.FDA recognized standard ISO11137 Sterilization Standard.

Ivera Medical has completed testing to demonstrate the materials of construction for the Subject Device meet FDA recognized standard ISO10993 for biocompatibility.

Conclusion

The analysis arguments and test results demonstrate the Curos TipsTM device is safe for its intended use and is substantially equivalent to the predicate devices.